File



State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-638
Relating to Certification of New Motor Vehicles

FORD MOTOR COMPANY

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That 1996 model-year Ford Motor Company exhaust emission control systems are certified as described below for passenger cars:

Emission Standard Category: Transitional Low-Emission Vehicle (TLEV)

Fuel Type: Gasoline

Engine Family: TFM2.0VJG2HK Displacement: 2.0 Liters (122 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

Warm-Up Three Way Catalytic Converter
Three Way Catalytic Converter
Heated Oxygen Sensors (two)
Exhaust Gas Recirculation
Sequential Multiport Fuel Injection

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The TLEV certification exhaust emission standards for this engine family in grams per mile are:

| Miles | Non-Methane Organic Gas | Carbon Monoxide | Nitrogen Oxides | Formaldehyde | Carbon Monoxide (20°F) |
|---|---|---|---|---|---|
| 50,000 | 0.125 | 3.4 | 0.4 | 0.015 | 10.0 |
| 100,000 | 0.156 | 4.2 | 0.6 | 0.018 | n/a |

Reactivity Adjustment Factor (RAF) for NMOG Mass Emission: 0.98

The certification exhaust emission values set forth for non-methane organic gas (NMOG) reflect application of a 0.98 RAF for 1996 model-year TLEVs. The TLEV certification exhaust emission values for this engine family in grams per mile are (Values in parentheses are actual certification values before rounding off.):

| Miles | Non-Methane Organic Gas | Carbon Monoxide | Nitrogen Oxides | Formaldehyde | Carbon Monoxide (20°F) |
|---|---|---|---|---|---|
| 50,000 | 0.069 | 0.8 | 0.1 | 0.000 (0.00049) | 6.5 |
| 100,000 | 0.074 | 0.9 | 0.1 | 0.000 (0.00049) | n/a |

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the aforementioned exhaust emission standards based on its submitted plan to comply with the fleet average non-methane organic gas (NMOG) exhaust mass emission requirements as set forth in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That under the submitted NMOG fleet average compliance plan, if the manufacturer incurs a NMOG debit for the aforementioned model year based on the projected NMOG fleet average exceeding the value required by the above-referenced standards and test procedures, all incurred NMOG debits by the manufacturer shall be equalized as required by the standards and test procedures.

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the 50,000-mile evaporative emission standards applicable to 1980 through 1994 model-year vehicles in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles", and the listed vehicle models comply with those standards.

BE IT FURTHER RESOLVED: That, based on the evaporative emission phase-in compliance schedule submitted by the vehicle manufacturer, the listed vehicle models shall not be subject to the running loss and useful life standards set forth in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles."

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" for the aforementioned model year (Title 13, California Code of Regulations, Section 2235).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high-altitude requirements and highway emission standards, and with the California Inspection and Maintenance emission standards in place at the time of certification, as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That the vehicle manufacturer has demonstrated compliance with the exhaust emission standards at 50 degrees Fahrenheit as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles."

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Emission Control Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

BE IT FURTHER RESOLVED: That the manufacturer is certifying the listed vehicle models with a partially complying on-board diagnostic system for the aforementioned model year pursuant to Title 13, California Code of Regulations, Section 1968.1(m)(6.1) ("Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines").

BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California this 27 day of July 1995.

John Summerfield for
R. B. Summerfield
Assistant Division Chief
Mobile Source Division

E.O.# A-10-638

# 1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
## PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer: Ford Motor Company  Exhaust Engine Family: TFM2.0VJG2HK

Evap Standard: 50K _X_  Useful Life with R/L _____  Evap Family: TFM1065BYPAB

Exhaust Std: Tier 0 __ Tier 1 __ TLEV X LEV __ ULEV __ ZEV __ ; EPA Tier 0 ___ Tier 1 ___

Vehicle Class(es): PC X LDT1 __ LDT2 __ MDV1 __ MDV2 __ MDV3 __ MDV4 __ MDV5 __

Single Cert Std for Multi-Class Eng Fam: N/A (specify N/A, LDT1, MDV1, MDV2, MDV3, MDV4)

Exh Cert Fuel(s): Indo __ Ph2 X Diesel: 13 CCR 2282 __ or 40 CFR 86.113-90 __ or -94 __
M85 __ CNG __ LPG __ Other (specify) _____

Fuel Type(s): Dedicated __ Flex-Fuel __ Dual-Fuel __ Gasoline X Diesel __ M85 __
CNG ___ LNG ___ LPG ___ Other (specify) _____

Hybrid: Type A ___ B ___ C ___, APU Cycle (e.g., Otto, Diesel, Turbine) _____

Engine Config: I-4  Liter (CID): 2.0 (121.5)

Engine: Front X Mid.___ Rear___  Drive: FWD X RWD __ 4WD-FT __ 4WD-PT __

Exhaust ECS & Special Features: SFI/HO2S(2)/EGR/TWC/WU-TWC
(Use abbreviations per SAE J1930, Sep 91)

| Engine Code (California) | Vehicle Models | Trans. Type A-Automatic M-Manual | ETW | DPA | Ignition (PCM) Part No. | EGR System Part No. | Catalyst Part No. |
|---|---|---|---|---|---|---|---|
| 62FSDM0N NO A/C | Probe | M5 | 3000 | 6.2*1<br>5.8*2<br>5.5*3 | Distributer: FSB9<br>ECU: FSC7 | FS56 | FSC5 B6CK |
| 62FSDM0A A/C | Probe | M5 | 3000 | 6.8*1<br>6.4*2<br>6.0*3 | | | |
| 62FSDA0N NO A/C | Probe | L4 | 3125 | 6.2*1<br>5.8*2<br>5.5*3 | Distributer: FSB9<br>ECU: FSC8 | | |
| 62FSDA0A A/C | Probe | L4 | 3125 | 6.8*1<br>6.4*2<br>6.0*3 | | | |

*1 P195/65R14
*2 P205/55R15 with LX fascia
*3 P205/55R15 with SE fascia



ENGINE FAMILY: TFM2.0VJG2HK
ISSUED: 5/26/95
REVISED:

E.O.# A-10-638

# 1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer: Ford Motor Company  Exhaust Engine Family: TFM2.0VJG2HK

Evap Standard: 50K _X_  Useful Life with R/L _____  Evap Family: TFM1065BYPAB

Exhaust Std: Tier 0 __ Tier 1 __ TLEV _X_ LEV __ ULEV __ ZEV __ ; EPA Tier 0 ___ Tier 1 ___

Vehicle Class(es): PC _X_ LDT1 __ LDT2 __ MDV1 __ MDV2 __ MDV3 __ MDV4 __ MDV5 __

Single Cert Std for Multi-Class Eng Fam: _N/A_ (specify N/A, LDT1, MDV1, MDV2, MDV3, MDV4)

Exh Cert Fuel(s): Indo __ Ph2 _X_ Diesel: 13 CCR 2282 __ or 40 CFR 86.113-90 __ or -94 __
M85 __ CNG __ LPG __ Other (specify) _____

Fuel Type(s): Dedicated __ Flex-Fuel __ Dual-Fuel __ Gasoline _X_ Diesel __ M85 __
CNG ___ LNG ___ LPG ___ Other (specify) _____

Hybrid: Type A ___ B ___ C ___; APU Cycle (e.g., Otto, Diesel, Turbine) _____

Engine Config: _I-4_  Liter (CID): _2.0 (121.5)_

Engine: Front _X_ Mid.___ Rear___  Drive: FWD _X_ RWD __ 4WD-FT __ 4WD-PT __

Exhaust ECS & Special Features: _SFI/HO2S(2)/EGR/TWC/WU-TWC_
(Use abbreviations per SAE J1930, Sep 91)

| Engine Code (California) | Vehicle Models | Trans. Type A-Automatic M-Manual | ETW | DPA | Ignition (PCM) Part No. | EGR System Part No. | Catalyst Part No. |
|---|---|---|---|---|---|---|---|
| 62FSDA1N | Probe | L4 | 3125 | 6.2*1<br>5.8*2<br>5.5*3 | Distributer: FSB9<br>ECU: FSC8 | FS56 | FSC5 B6CK |
| 62FSDA1A | Probe | L4 | 3125 | 6.8*1<br>6.4*2<br>6.0*3 | | | |

*1 P195/65R14
*2 P205/55R15 with LX fascia
*3 P205/55R15 with SE fascia

ENGINE FAMILY: TFM2.0VJG2HK
ISSUED: 8/3/95
REVISED:

E.O.# A-10-635

# 1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
## PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer: Ford Motor Company  Exhaust Engine Family: TFM2.0VJG2HK

Evap Standard: 50K _X_  Useful Life with R/L _____  Evap Family: TFM1065BYPAB

Exhaust Std: Tier 0 __ Tier 1 __ TLEV _X_ LEV __ ULEV __ ZEV __ ; EPA Tier 0 ___ Tier 1 ___

Vehicle Class(es): PC _X_ LDT1 __ LDT2 __ MDV1 __ MDV2 __ MDV3 __ MDV4 __ MDV5 __

Single Cert Std for Multi-Class Eng Fam: _N/A_ (specify N/A, LDT1, MDV1, MDV2, MDV3, MDV4)

Exh Cert Fuel(s): Indo __ Ph2 _X_ Diesel: 13 CCR 2282 __ or 40 CFR 86.113-90 __ or -94 __
M85 __ CNG __ LPG __ Other (specify) _____

Fuel Type(s): Dedicated __ Flex-Fuel __ Dual-Fuel __ Gasoline _X_ Diesel __ M85 __
CNG ___ LNG ___ LPG ___ Other (specify) _____

Hybrid: Type A ___ B ___ C ___; APU Cycle (e.g., Otto, Diesel, Turbine) _____

Engine Config: _I-4_  Liter (CID): _2.0 (121.5)_

Engine: Front _X_ Mid.___ Rear___  Drive: FWD _X_ RWD __ 4WD-FT __ 4WD-PT __

Exhaust ECS & Special Features: _SFI/HO2S(2)/EGR/TWC/WU-TWC_
(Use abbreviations per SAE J1930, Sep 91)

| Engine Code (California) | Vehicle Models | Trans. Type A-Automatic M-Manual | ETW | DPA | Ignition (PCM) Part No. | EGR System Part No. | Catalyst Part No. |
|---|---|---|---|---|---|---|---|
| 62FSDM1N | Probe | M5 | 3000 | 6.2*1<br>5.8*2<br>5.5*3 | Distributer: FSB9<br>ECU: FSC7 | FS56 | FSC5 B6CK |
| 62FSDM1A | Probe | M5 | 3000 | 6.8*1<br>6.4*2<br>6.0*3 | | | |
| 62FSDA2N | Probe | L4 | 3125 | 6.2*1<br>5.8*2<br>5.5*3 | Distributer: FSB9<br>ECU: FSC8 | | |
| 62FSDA2A | Probe | L4 | 3125 | 6.8*1<br>6.4*2<br>6.0*3 | | | |

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# 1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
## PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer: Ford Motor Company  Exhaust Engine Family: TFM2.0VJG2HK

Evap Standard: 50K _X_  Useful Life with R/L _____  Evap Family: TFM1065BYPAB

Exhaust Std: Tier 0 __ Tier 1 __ TLEV _X_ LEV __ ULEV __ ZEV __ ; EPA Tier 0 ___ Tier 1 ___

Vehicle Class(es): PC _X_ LDT1 __ LDT2 __ MDV1 __ MDV2 __ MDV3 __ MDV4 __ MDV5 __

Single Cert Std for Multi-Class Eng Fam: _N/A_ (specify N/A, LDT1, MDV1, MDV2, MDV3, MDV4)

Exh Cert Fuel(s): Indo __ Ph2 _X_ Diesel: 13 CCR 2282 __ or 40 CFR 86.113-90 __ or -94 __
M85 __ CNG __ LPG __ Other (specify) _____

Fuel Type(s): Dedicated __ Flex-Fuel __ Dual-Fuel __ Gasoline _X_ Diesel __ M85 __
CNG ___ LNG ___ LPG ___ Other (specify) _____

Hybrid: Type A ___ B ___ C ___, APU Cycle (e.g., Otto, Diesel, Turbine) _____

Engine Config: I-4  Liter (CID): 2.0 (121.5)

Engine: Front _X_ Mid.___ Rear___  Drive: FWD _X_ RWD __ 4WD-FT __ 4WD-PT __

Exhaust ECS & Special Features: SFI/HO2S(2)/EGR/TWC/WU-TWC
(Use abbreviations per SAE J1930, Sep 91)

| Engine Code (California) | Vehicle Models | Trans. Type A-Automatic M-Manual | ETW | DPA | Ignition (PCM) Part No. | EGR System Part No. | Catalyst Part No. |
|---|---|---|---|---|---|---|---|
| 62FSDA3N | Probe | L4 | 3125 | 6.2*1<br>5.8*2<br>5.5*3 | Distributer: FSB9<br>ECU: FSC8 | FS56 | FSC5 B6CK |
| 62FSDA3A | Probe | L4 | 3125 | 6.8*1<br>6.4*2<br>6.0*3 | | | |

*1 P195/65R14
*2 P205/55R15 with LX fascia
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# 1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer: Ford Motor Company  Exhaust Engine Family: TFM2.0VJG2HK

Evap Standard: 50K _X_  Useful Life with R/L ____  Evap Family: TFM1065BYPAB

Exhaust Std: Tier 0 _ Tier 1 _ TLEV X LEV _ ULEV _ ZEV _ ; EPA Tier 0 ___ Tier 1 ___

Vehicle Class(es): PC X LDT1 _ LDT2 _ MDV1 _ MDV2 _ MDV3 _ MDV4 _ MDV5 _

Single Cert Std for Multi-Class Eng Fam: N/A (specify N/A, LDT1, MDV1, MDV2, MDV3, MDV4)

Exh Cert Fuel(s): Indo _ Ph2 X Diesel: 13 CCR 2282 _ or 40 CFR 86.113-90 _ or -94 _
M85 _ CNG _ LPG _ Other (specify) _____

Fuel Type(s): Dedicated _ Flex-Fuel _ Dual-Fuel _ Gasoline X Diesel _ M85 _
CNG ___ LNG ___ LPG ___ Other (specify) _____

Hybrid: Type A ___ B ___ C ___, APU Cycle (e.g., Otto, Diesel, Turbine) _____

Engine Config: I-4  Liter (CID): 2.0 (121.5)

Engine: Front X Mid.__ Rear__ Drive: FWD X RWD _ 4WD-FT _ 4WD-PT _

Exhaust ECS & Special Features: SFI/HO2S(2)/EGR/TWC/WU-TWC
(Use abbreviations per SAE J1930, Sep 91)

| Engine Code (California) | Vehicle Models | Trans. Type A-Automatic M-Manual | ETW | DPA | Ignition (PCM) Part No. | EGR System Part No. | Catalyst Part No. |
|---|---|---|---|---|---|---|---|
| 62FSDM2N | Probe | M5 | 3000 | 6.2*1<br>5.8*2<br>5.5*3 | Distributer: FSB9<br>ECU: FSC7 | FS56 | FSC5 B6CK |
| 62FSDM2A | Probe | M5 | 3000 | 6.8*1<br>6.4*2<br>6.0*3 | | | |
| 62FSDA4N | Probe | L4 | 3125 | 6.2*1<br>5.8*2<br>5.5*3 | Distributer: FSB9<br>ECU: FSC8 | | |
| 62FSDA4A | Probe | L4 | 3125 | 6.8*1<br>6.4*2<br>6.0*3 | | | |

*1 P195/65R14
*2 P205/55R15 with LX fascia
*3 P205/55R15 with SE fascia